



Analytical Laboratory
13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex – MG03A2
Phone: 704-875-5245 Fax: 704-875-4349

Job Summary Report

Job Number: 09-NOV-0031

Project Name: NPDES Monthly
Customer Name: J.R. Wood
Copy To: Sue Wallace
Customer Address: Miami-Fort

Lab Contact: Theron James
Lab Contact Phone: 704-875-4795

Report Authorized By:
(Printed Name) THERONA JAMES

Report Authorized By:
(Signature) Therona James Date: 11/16/09

Data Package

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical Laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report
Analytical Laboratory Certificate of Analysis
Analytical Laboratory QC Reports (if applicable)
Sub-contracted Laboratory Results
Customer Specific Data Sheets, Reports & Documentation (if applicable)
Customer Database Entries
Test Case Narratives
Chain of Custody (COC)



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Job Summary Report

Certification

The Analytical Laboratory holds the following Certifications:

New York State Department of Health Certification # 11717(NELAC)
North Carolina Department of Health & Human Services Certification # 37804
South Carolina (DHEC) Laboratory ID # 99005
North Carolina (DENR) Certification # 248

Analytical results listed in this report may not be certified by the authorities referenced above. Contact the Analytical Laboratory for definitive information about the certification status of specific methods. The results meet all requirements of NELAC except where deviations are noted in this report.

Data Flags

Any analytical tests or individual analytes within a test flagged with an "X" or a "1" indicate a deviation from the method quality system or quality control requirement.

Calculations

All results are reported on a wet weight basis unless otherwise noted.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date	Collected By	Sample Description
29025224	MIAMI FORT	11/02/2009	MARK HARPER	OUTFALL 002
29025225	MIAMI FORT	11/02/2009	MARK HARPER	OUTFALL 608
<hr/>				
2 TOTAL SAMPLES				

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i)	COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
ii)	All results are less than the laboratory reporting limits.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
iii)	All laboratory QA/QC requirements are acceptable.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
iv)	NPDES and TCLP results are below permit or regulatory limits respectively.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

[illegible]

- ☒ Job Summary Report
- ☒ Analytical Laboratory Certificate of Analysis
- ☐ Analytical Laboratory QC Report (if applicable)
- ☒ Sub-contracted Laboratory Results

- ☐ Customer Specific Data Sheets, Reports & Documentation (if applicable)
- ☐ Customer Database Entries
- ☐ Test Case Narratives
- ☒ Chain of Custody

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MIAMI FORT

Certificate of Laboratory Analysis

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Job # 09-NOV-0031

Analytical Laboratory
Page 4 of 11

2 Samples

16 Tests

Included in this Report

Lab ID: **29025224** Sample Desc: **OUTFALL 002**

Desktop #: 11/19/2009

Sample Collected: 11/2/2009 09:45:00

Collected By: MARK HARPER

Customer ID: WOOD / WALLACE

Date Initiated in Lab: 11/2/2009 08:46:08

VENDORED ANALYSIS - PRISM LABS

Date Analyzed: 11/12/2009 00:00:00

PRISM TEST COMPLETED

TDS

Lab ID: **29025225** Sample Desc: **OUTFALL 608**

Sample Collected: 11/2/2009 12:10:00

Collected By: MARK HARPER

Customer ID: WOOD / WALLACE

Date Initiated in Lab: 11/2/2009 08:48:56

ALKALINITY (FIXED END POINT 4.5)

Data Posted: 11/9/2009 16:17:49

Method: SM2320B

ALKALINITY 1300 mg-CaCO3/L

Reporting Limit	Flag
0.10	0

ARSENIC BY ICP-MS (DIGESTED)

Data Posted: 11/6/2009 14:08:42

Method: EPA 200.8/6020

ARSENIC < 1.00 ug/L

Reporting Limit	Flag
1.00	0

BARIUM BY ICP-MS (DIGESTED)

Data Posted: 11/6/2009 14:08:42

Method: EPA 200.8/6020

BARIUM 5.90 ug/L

Reporting Limit	Flag
1.00	0

BORON BY ICP (DIGESTED)

Data Posted: 11/9/2009 15:33:53

Method: EPA 200.7/6010B

BORON 428 mg/L

Reporting Limit	Flag
5.00	0

CADMIUM BY ICP-MS (DIGESTED)

Data Posted: 11/6/2009 14:08:42

Method: EPA 200.8/6020

CADMIUM < 1.00 ug/L

Reporting Limit	Flag
1.00	0

CHLORIDE (IC)

Data Posted: 11/6/2009 13:04:21

Method: EPA 300.0

CHLORIDE 5400 mg/L

Reporting Limit	Flag
500	0

CHROMIUM BY ICP-MS (DIGESTED)

Data Posted: 11/6/2009 14:08:42

Method: EPA 200.8/6020

CHROMIUM < 1.00 ug/L

Reporting Limit	Flag
1.00	0

COPPER BY ICP-MS (DIGESTED)

Data Posted: 11/9/2009 08:29:10

Method: EPA 200.8/6020

COPPER < 1.00 ug/L

Reporting Limit	Flag
1.00	0

FLUORIDE (IC)

Data Posted: 11/6/2009 13:04:20

Method: EPA 300.0

FLUORIDE 27 mg/L

Reporting Limit	Flag
10	0

LEAD BY ICP-MS (DIGESTED)

Data Posted: 11/6/2009 14:08:42

Method: EPA 200.8/6020

LEAD < 1.00 ug/L

Reporting Limit	Flag
1.00	0



MIAMI FORT

Certificate of Laboratory Analysis

*This report shall not be reproduced, except in full.***Job # 09-NOV-0031**Analytical Laboratory
Page 5 of 11**2 Samples**
16 Tests
Included in this ReportLab ID: **29025225** Sample Desc: **OUTFALL 608**

Sample Collected: 11/2/2009 12:10:00

Collected By: MARK HARPER

Customer ID: WOOD / WALLACE

Date Initiated in Lab: 11/2/2009 08:48:56

MANGANESE BY ICP (DIGESTED)

Data Posted: 11/9/2009 15:55:11

Method: EPA 200.7/6010B

MANGANESE 1.92 mg/L

Reporting Limit Flag

0.0100 0

SULFATE (IC)

Data Posted: 11/6/2009 13:04:22

Method: EPA 300.0

SULFATE 13000 mg/L

Reporting Limit Flag

500 0

TOTAL SUSPENDED SOLIDS (EPA)

Data Posted: 11/4/2009 17:19:53

Method: SM2540D

TSS 12 mg/L

Reporting Limit Flag

4.0 0

VENDORED ANALYSIS - PRISM LABS

Date Analyzed: 11/12/2009 00:00:00

PRISM TEST COMPLETED

TDS

ZINC BY ICP-MS (DIGESTED)

Data Posted: 11/6/2009 14:08:43

Method: EPA 200.8/6020

ZINC 1.10 ug/L

Reporting Limit Flag

1.00 0



PRISM
LABORATORIES, INC.

Case Narrative

Date: 11/13/09
Company: Duke Energy Corporation
Contact: Jay Perkins
Address: 13339 Hagers Ferry Road
Huntersville, NC 28078

Client Project ID: 09-NOV-0031
Prism COC Group No: G1109192
Collection Date(s): 11/02/09
Lab Submittal Date(s): 11/05/09
Client Project Name Or No: Miami-Fort NPDES Monthly (Nov. 3)

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 4 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

N/A

Volatile Analysis

N/A

Metals Analysis

N/A

Wet Lab and Micro Analysis

Analysis Note for Q45865 Method Blank Total Dissolved Solids: MB is greater than 1/2 of the reporting limit. Samples were not repeated due to holding time.

Please call if you have any questions relating to this analytical report.

Data Reviewed by: Robbi A. Jones

Signature:

Review Date: 11/13/09

Project Manager: Angela D. Overcash

Signature:

Approval Date: 11/13/09

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.

#: Result outside of the QC limits.

DO: Compound diluted out.

E: Estimated concentration, calibration range exceeded.

J: The analyte was positively identified but the value is estimated below the reporting limit.

H: Estimated concentration with a high bias.

L: Estimated concentration with a low bias.

M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.



NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Duke Energy Corporation
Attn: Jay Perkins
13339 Hagers Ferry Road
Huntersville, NC 28078

Project Name: Miami-Fort NPDES
Monthly (Nov. 3)
Project ID: 09-NOV-0031
Sample Matrix: Water

Client Sample ID: 29025224/Outfall 002
Prism Sample ID: 262829
COC Group: G1109192
Time Collected: 11/02/09 9:45
Time Submitted: 11/05/09 7:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Dissolved Solids									
Total Dissolved Solids	1200	mg/L	20	14	1	SM2540 C	11/06/09 16:15	mbarber	Q45865

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

11/13/09

Duke Energy Corporation
Attn: Jay Perkins
13339 Hagers Ferry Road
Huntersville, NC 28078

Project Name: Miami-Fort NPDES
Monthly (Nov. 3)
Project ID: 09-NOV-0031
Sample Matrix: Water

Client Sample ID: 29025225/Outfall 608
Prism Sample ID: 262911
COC Group: G1109192
Time Collected: 11/02/09 12:10
Time Submitted: 11/05/09 7:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Dissolved Solids									
Total Dissolved Solids	38000	mg/L	20	14	1	SM2540 C	11/06/09 16:15	mbarber	Q45865

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

11/13/09

Duke Energy Corporation
Attn: Jay Perkins
13339 Hagers Ferry Road
Huntersville, NC 28078

Project Name: Miami-Fort NPDES
Monthly (Nov. 3)
Project ID: 09-NOV-0031

COC Group Number: G1109192
Date/Time Submitted: 11/5/09 7:30

Total Dissolved Solids, method SM2540 C

Method Blank							QC Batch ID
	Result	RL	Control Limit	Units			
Total Dissolved Solids	16	20	<20	mg/L			Q45865
Laboratory Control Sample							QC Batch ID
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	
Total Dissolved Solids	1010	1000		mg/L	101	90-110	Q45865
Duplicate							QC Batch ID
Sample ID:	Sample Result	Duplicate Result		Units	RPD %	RPD Range %	
262474 Total Dissolved Solids	52	48		mg/L	8	0 - 20	Q45865

#See Case Narrative

